

Electronics

SCHRACK

Power PCB Relay RT1

- 1 pole 12 / 16 A, 1 CO or 1 NO contact
- **■** DC- or AC-coil
- Sensitive coil 400 mW
- 5 kV / 10 mm coil-contact, reinforced insulation
- Ambient temperature 85°C (DC-coil)
- WG version: Product in accordance to IEC60335-1
- RoHS compliant (Directive 2002/95/EC) as per product date code 0413



F0144-B

Applications

Boiler control, timers, garage door control, POS automation, interface modules

Approvals

©E REG.-Nr. 6106, **c % us** E214025, (SEAR) C0786, (S) 0039110/01-02, (F) FI 190164 A1,

Technical data of approved types on request

Contact data			
Contact configuration	1 CO or 1	NO contact	
Contact set	single	contact	
Type of interruption	micro disconnection		
Rated current	12 A	16 A	
Rated voltage / max.switching voltage AC	240/400 VAC		
Limiting continuous current		UL: 20 A	
Maximum breaking capacity AC	3000 VA	4000 VA	
Limiting making capacity, max 4 s, df 10%	25 A	30 A	
Contact material	AgNi 90/10, AgN	li 90/10 gold plated	
Mechanical endurance DC coil	> 30 x 10 ⁶ cycles		
AC coil	> 10 x 10 ⁶ cycles		
Rated frequency of operation with / without load	6 / 120	00 min ⁻¹	

Contact ratings

Coil data

Coil power DC coil

Operative range

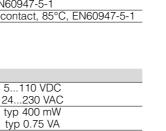
Rated coil voltage range DC coil

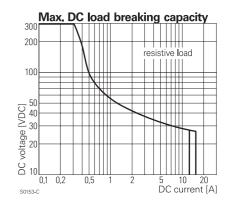
AC coil

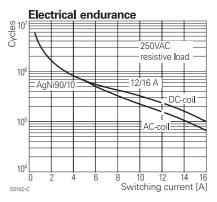
Coil insulation system according UL1446

AC coil

Ountabl	ramigo	
Type	Load	Cycles
RT314	16 A, 250 VAC, NO contact, 85°C, DF 10%, UL508	50x10 ³
RT314	16 A, 250 VAC, NC contact, 70°C, 30min ⁻¹	53x10 ³
RT314	20 A, 250 VAC, NO contact, 85°C, UL508	6x10 ³
RT314	1000 W incandescent lamp, 250 VAC	1.2x10 ³
RT314	10 A, 250 VAC, cosφ=0.6, CO contact, 70°C	200x10 ³
RT314	5 A / 2 A, 250 VAC, cosφ=1, motor, NO contact, 10min ⁻¹ , 70°C	1.1x10 ⁶
RT314	0.26 A / 0.01 A, 230 VAC, cosφ=0.38, valve, NO contact, 25min ⁻¹	7.6×10^6
RT314	Pilot duty A300 (NO contact), B300 (CO/NC contact), UL508	
RT314	1hp @ 240 VAC, 1/2hp @ 120 VAC, NO contact, UL508	
RT314	AC15, 6 A, 250 VAC, NO and NC contact, 85°C, EN60947-5-1	
RT314	DC13, 2 A / 24 VDC, 0.2 A / 250 VDC, NO and NC contact, 85°C, E	N60947-5-1







class F







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Power PCB Relay RT1 (Continued)

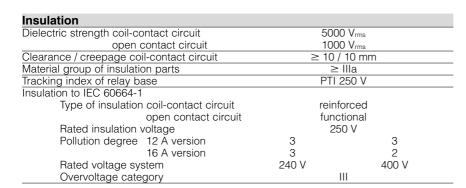
Coil vers	ions, DC-coil				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ohm	mW
005	5	3.5	0.5	62±10%	403
006	6	4.2	0.6	90±10%	400
012	12	8.4	1.2	360±10%	400
024	24	16.8	2.4	1440±10%	400
048	48	33.6	4.8	5520±10%	417
060	60	42.0	6.0	8570±12%	420
110	110	77.0	11.0	28800±12%	420

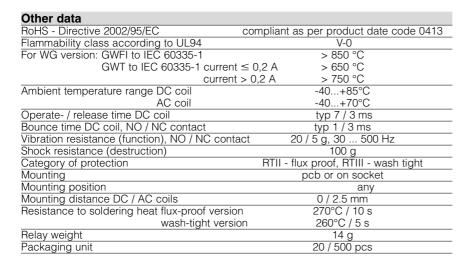
All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request

Coil versions, AC-coil 50Hz

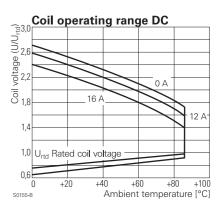
OOII VCIS	nons, Ao-con	JUI 12			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
		50 Hz	50 Hz		50 Hz
	VAC	VAC	VAC	Ohm	VA
524	24	18.0	3.6	350±10%	0.76
615	115	86.3	17.3	8100±15%	0.76
700	200	150.0	30.0	24350±15%	0.76
730	230	172.5	34.5	32500±15%	0.74
A 11 C:					0000

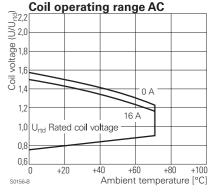
All figures are given for coil without preenergization, at ambient temperature +23°C











change.

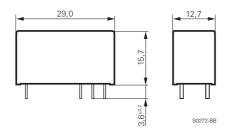




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Power PCB Relay RT1 (Continued)

Dimensions

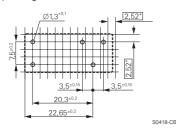


PCB layout / terminal assignment

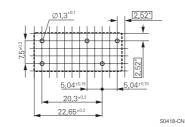
Bottom view on solder pins

*) With the recommended PCB hole sizes a grid pattern from 2.5 mm to 2.54 mm can be used.

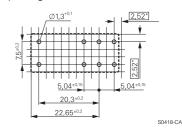
12 A, pinning 3.5 mm



12 A, pinning 5 mm



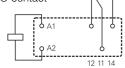
16 A, pinning 5 mm



S0163-BE

S0163-BE

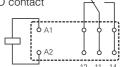
1 CO contact



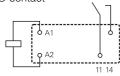
1 CO contact



1 CO contact



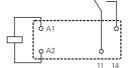
1 NO contact



1 NO contact

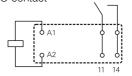
S0163-BG

S0163-BH

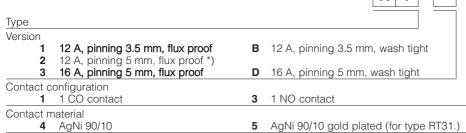


1 NO contact

S0163-BD



Product key



Coil

Coil code: please refer to coil versions table

Version

Blank Standard version

WG Product in accordance with IEC 60335-1 (domestic appliances)

Preferred types in bold print

*) Wash tight version on request





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Power PCB Relay RT1 (Continued)

Product key	Version	Contacts	Cont. material	Coil	Coil	_ Part number
RT114005	12 A	1 CO contact	AgNi 90/10	DC-coil	5 VDC	0-1393239-7
RT114006	pinning 3.5 mm				6 VDC	0-1393239-8
RT114012	flux proof				12 VDC	0-1419108-1
RT114024	·				24 VDC	1-1393239-3
RT114048					48 VDC	1-1393239-4
RT114110					110 VDC	1-1393239-6
RT114524				AC-coil	24 VAC	1-1393239-7
RT114615					115 VAC	1-1393239-8
RT114730					230 VAC	1-1393239-9
RT134012		1 NO contact		DC-coil	12 VDC	2-1393239-6
RT134024					24 VDC	3-1393239-0
RT214012	12 A, pinning 5mm	1 CO contact			12 VDC	5-1393239-4
RT214024	flux proof				24 VDC	5-1393239-5
RT314005	16 A				5 VDC	9-1393239-1
RT314006	pinning 5 mm				6 VDC	9-1393239-3
RT314012	flux proof				12 VDC	9-1393239-5
RT314024					24 VDC	9-1393239-8
RT314048					48 VDC	0-1393240-1
RT314060					60 VDC	0-1393240-2
RT314110					110 VDC	0-1393240-3
RT314524				AC-coil	24 VAC	0-1393240-4
RT314615					115 VAC	0-1393240-6
RT314730					230 VAC	0-1393240-7
RT315012			AgNi 90/10	DC-coil	12 VDC	1-1393240-1
RT315024			gold plated		24 VDC	1-1393240-4
RT315730				AC-coil	230 VAC	1-1419108-1
RT334012		1 NO contact	AgNi 90/10	DC-coil	12 VDC	4-1393240-5
RT334024					24 VDC	4-1393240-8
RT334048					48 VDC	5-1393240-0
RTB14005	12 A	1 CO contact			5 VDC	1-1393238-2
RTB14012	pinning 3.5 mm				12 VDC	1-1393238-5
RTB14024	wash tight				24 VDC	1-1393238-9
RTB14048					48 VDC	2-1393238-1
RTD14005	16 A				5 VDC	5-1393238-9
RTD14006	pinning 5 mm				6 VDC	6-1393238-0
RTD14012	wash tight				12 VDC	6-1393238-2
RTD14015					15 VDC	6-1393238-4
RTD14024					24 VDC	6-1393238-8
RTD14048					48 VDC	6-1393238-9
RTD34005		1 NO contact			5 VDC	8-1393238-3
RTD34012					12 VDC	3-1419108-5
RTD34024					24 VDC	3-1419108-8